Email: cewwm@bwssb.gov.in

Ph: 080-22945106

ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

BANGALORE WATER SUPPLY & SEWERAGE BOARD

O/o Chief Engineer(WWM-East), 5th Floor, Cauvery Bhavan, Bangalore-560009.

No. BWSSB/ CE(WWM-E)/ DCE(WWM- E&W)/TA-1/ 251 /2025-26 Date : 22/05/25

ADDENDUM -1

Sub:1. Design, Supply Installation and Commissioning of Ultra Filtration System taken up under Jal Hi Amrut scheme at 10 MLD Hulimavu STP coming under EE(WWM-STP) K&T Division (Turnkey Contract)

Ref:1. IFT No. BWSSB/CE(WWM-E)/ACE(WWM-N-E)/DCE(WWM-E&W)/ TA-1/149/ 2025-26 Dt: 08-05-2025.

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With reference to the above subject, invitation for this tender was invited vide IFT mentioned in reference letter this Addendum indicates the details of response to the pre bid queries.

Chief Engineer(WWM-E)
BWSSB

Encl: Replies Pre bid Queries

Client				BANGALORE WATER SUPPLY AND SEWERAGE BOARD			
Project				**Design, Supply Installation and Commissioning of Ultra Filtration System taken up under Jal Hi Amrut scheme at 10 MLD Hulimavu STP coming under EE(WWM-STP) K&T Division (TURNKEY CONTRACT)**			
SL. No	**Part**	**Section**	**Clause No**	**Pg No**	**Subject**	**Clarification Required**	**Response**
1		Vol 1, Sec 01	3.1.2	7 & 11	Particular Construction Experience	It is mensioned "As a Prime Contractor, the tenderer should have satisfactorily completed at least one similar nature of Sewage Treatment plant/Tertiary Treatment Plant with Ultra filteration /Membrane Bio Reactor/Nano Filteration of value not less than Rs.239.71 lakhs." at page no. But the particular construction experience is not mentioned Please Clarify	Pre Qualification criteria page No.07 will prevails
Technical Queries							
2	5	Vol 2 Section 7	5.9	6	Peak factor - 2.25	As per our understanding, the Ultrafilteration (UF) and UV systems are to be designed for a flow of 2.5 MLD. We understand that the peak factor of 2.25 is not applicable to the design of the UF and UV systems. Kindly confirm whether this understanding is correct.	Confirmed
3	5	Vol 2 Section 7	5.9	8	No.of UF Stream 2	For the design flow of 2.5 MLD, it appears that a single working UF stream would be sufficient. Kindly clarify whether we need to consider: One working and one standby UF stream, or Two working UF streams of 1.25 MLD capacity each.	Two working UF streams of 1.25MLD Capacity each
4	5	Vol 2 Section 7	5.9	9	Minimum Operating life of membrane 10 yrs	As per the tender specifications, the minimum operating life of the UF membrane is mentioned as 10 years. We would like to highlight that, based on industry standards and manufacturer specifications, the typical operating life of UF membranes ranges between 2 to 5 years, depending on feed water quality, operating conditions, and maintenance practices. Request you to kindly review and revise this requirement to a more practical and technically feasible lifespan, in line with standard industry practice and OEM recommendations.	5 years
5	5	Vol 2 Section 7	5.9	10	Type of UV System Open Channel/Pipe	We request your kind consideration only for specifying open channel UV disinfection systems in the tender, instead of pipe-type UV systems, for the following technical reasons: **Proven Suitability for Wastewater Applications:** Open channel UV systems are widely used and well-established in municipal and industrial wastewater treatment plants, particularly for tertiary treated effluent. **Ease of Operation and Maintenance:** These systems provide easy access for lamp replacement, sleeve cleaning, and general maintenance, without requiring shutdown or disassembly of pipelines. **Energy Efficiency:** Operating under gravity flow, open channel UV systems avoid the need for additional pumping and reduce energy consumption associated with head loss. **Lower Lifecycle Costs:** Due to simpler installation, lower operational costs, and reduced maintenance complexity, open channel UV systems offer a cost-effective disinfection solution. In light of the above advantages, we request that the tender consider specifying open channel UV systems for the disinfection process.	Open Channel

Addl. Chief Engineer
(WWM-STP-East)
BWSSB

Chief Engineer
(WWM-East)
BWSSB